



United States
Department of
Agriculture

Natural
Resources
Conservation
Service

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December 6, 1999

NEW YORK BULLETIN NO. NY210-0-1

SUBJECT: ENG- AGRICULTURAL WASTE MANAGEMENT FIELD HANDBOOK, PART
651 – SUPPLEMENT #8

Purpose: To add to the approved list (Sept. 1995) of standard detailed drawings prepared
by non-NRCS Engineers

Expiration Date: This bulletin expires when the contents have been filed.

Filing Instructions: File this material according to the instructions below.

The following standard detail drawings have been approved for use on NRCS assisted
projects in New York:

Precise Concrete Walls, PC10CT, 6/25/99
Precise Concrete Walls, PC12CT, 4/30/99

These drawings have been revised to allow for a maximum tank diameter of 160 feet, which
is a change from the 130 feet diameter that was previously stated on the drawings. This
change complies with the requirements of Practice Standard 313.

Please make pen and ink changes to the index located in chapter 10 and file this material
after page 10-26.

If you have any questions please give me a call at 315-477-6538.

Walter E. Grajko *ph*

WALTER E. GRAJKO
State Conservation Engineer

Distribution: All Area Offices
JCEO
Design
All Holders of the AWMFH



Supplement #9

SUITE 340
ONE CREDIT UNION PLACE
HARRISBURG, PA 17110-2993
717-237-2212; fax: 717-237-2239

Mr. Elmer King
Precise Concrete Walls, Inc.
601 Overly Grove Road
New Holland, PA17557

May 17, 2000

Dear Mr. King:

We have reviewed the additions to your standard detail drawing PC16CT dated 2/15/00, and sealed by Rodney Sommer, P.E. The drawings, which now include a maximum tank diameter of 160 feet, comply with the requirements of PA Standard 313.

I concur in the drawings for use on NRCS assisted projects in Pennsylvania. As always, the drawings must be used as part of a site specific design approved by an NRCS engineer and within the original design assumptions.

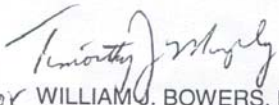
As in the past, you will be required to provide a complete set of your drawings on each job site. The new drawing sheets PC16CT20 through 30 are a complete set that can be used independently of and are not interchangeable with the lower drawing numbers in this design series, as noted on sheet PC16CT20.

I am distributing single copies of the new drawing sheets to each of our four Area Engineers for their reference. No further copies or distribution will be made.

I am also notifying the NRCS State Conservation Engineers in the neighboring states of my concurrence. (See the distribution list on the back of this letter.) You will need the concurrence of the State Conservation Engineer in each state where you plan to use these drawings on NRCS assisted projects.

Thanks for your continued cooperation in serving the farmers and environment of Pennsylvania. If you have any questions, please call me at 717-237-2206 or Tim Murphy at 717-237 2212.

Sincerely,


for WILLIAM J. BOWERS, P.E.
State Conservation Engineer

cc: w/ enclosure
Gary Miller, Area Engineer, Clarion, PA
John Zaginaylo, Area Engineer, Bloomsburg, PA
Wayne Bogovich, Area Engineer, Somerset, PA
Hosea Latshaw, Area Engineer, Lebanon, PA

Design Data Sheet for Standard Detail Drawing by:**Precise Concrete Walls, (PCCT) Circular, Site Cast Waste Storage Facility**

Designer: Rodney W. Sommer, PE 816-421-4232
Norton & Schmidt, Consulting Engineers
Suite 419, 1100 Main Street, Kansas City, MO 64105

Fabricator: Precise Concrete Walls 717-354-2780
601 Overly Grove Rd., New Holland, PA 17557

Drawings: PC8CT1 thru 11 (dated 4/19/91), revised 9/25/91, 1/8/92, and 3/10/97 for 8 foot walls.
PC10CT1 (sealed 6/25/99) thru PC10CT4 and PC10CT11 revised 6/25/99; PC10CT5 thru 10 dated 4/19/91; and PC10CT12 thru 17 dated 6/25/99 for 10 foot walls.
PC12CT1 (sealed 4/30/99), PC12CT3 and PC12CT4 revised 9/2/98; PC12CT2 and PC12CT11 revised 4/30/99; PC12CT5 thru 10 revised 2/11/91; PC12CT12 and 13 dated 3/11/97; PC12CT14 dated 8/19/98; and PC12CT15 thru 17 dated 4/30/99 for 12 foot walls.
PC16CT1 thru 11 (dated 12/28/92) for 16 foot walls.

Location: Calculations and drawing were reviewed for conformance with PA Standard 313. Design data are on file in NRCS-PA state office. Review was completed October 1998.

Materials: Reinforced concrete footings, floor slabs, walls, and access pads require Grade 60 steel with Class 4000 air-entrained concrete.

Sizes: Diameters: 50 to 100 ft. in 10 ft. increments for 8 and 16 ft. walls.
50 to 160 ft. in 10 ft. increments for 10 and 12 ft. walls.
Walls: 8 ft. high by 7 in. thick, 10 ft. high by 8 in. thick, 12 ft. high by 9 in. thick, and 16 ft high by 10 in thick.

Applications: PA Standard 313 for Medium (20 year) service life.

Assumptions: Walls are designed for full backfill, structure empty and structure full, minimum backfill conditions. Lateral earth pressure of 45 psf and 100psf surcharge are assumed. The access pads, proportioned to eliminate lateral surcharge loads on the wall, are designed for 2 wheels of 7.5 k each. The alternate wall steel in lieu of access pad is designed for 2 wheels of 10 k each. Minimum required soil bearing capacities are 1.0 ksf under floor slab, and 2.0 ksf + (110 psf multiplied by the depth below finished grade) for the footing. Backfill for frost protection is required. Design assumes a foundation drain as shown on drawings. Height of backfill against the structure walls shall not vary more than 4 feet. Structure diameters between those shown may be used provided the reinforcing steel for the next larger diameter is used.

Concurrence: The State Conservation Engineer concurs in the use of these standard detail drawings.